Homework

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3.0 Prelab

Question 1)   a) ?

           b) T

           c) F, after each response, the connection is closed.

           d) F, that field indicates when the packet was sent

Question 2)   a)

           b)

           c)

Question 3)

Question 4)

Question 5)

3.1 HTTP

Question 1)   abcdefg

Question 2)   The browser is running HTTP1.1.
My computer's IP address is 172.16.160.130

Question 3)   bc.edu's IP address is 136.167.2.220

Question 4)   The source port is 54910 and the destination port is 80.

Question 5)   The source is now 80 and the destination is 54910.

Question 6)   The server is running Apache.
The HTML file the was requested was last modified on Tuesday, October 4th 2016 at 17:17:01 GMT.

Question 7)   There were a total of 9 GET messages sent. This could be either for reduancy, so that if packets are lost, at least one will make it through the network to bc.edu in order to initiate a respone, or part of some parallelization of certain process that each send their own HTTP GET message.

3.2   DNS

Question 8)   The query and response are both send via UDP.

Question 9)   The source port is 42422 and the destination port is 53.

Question 10)   The DNS query is sent to 172.16.160.2 and *dig* reveals that the DNS local server IP is the same

Figure 1: The result of the dig command reports the local DNS IP

Question 11)

4   Additional Questions

Extra Questions here

Additonal Question 1   Description of the first addition Question